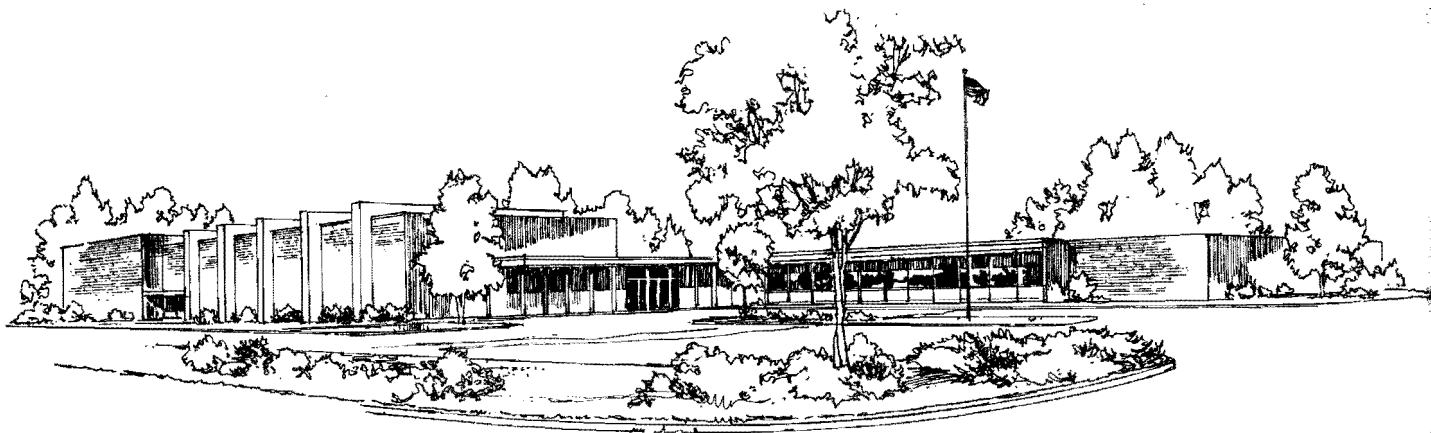


COMMERCIAL/INDUSTRIAL/ INSTITUTIONAL

M.560

School, Elementary



Costs per square foot of floor area

Exterior Wall	S.F. Area	25000	30000	35000	40000	45000	50000	55000	60000	65000
	L.F. Perimeter	900	1050	1200	1350	1510	1650	1800	1970	2100
Face Brick with Concrete Block Back-up	Steel Frame	173.50	171.90	170.70	169.80	169.45	168.65	168.20	168.15	167.50
	Bearing Walls	167.10	165.50	164.35	163.45	163.00	162.20	161.80	161.70	161.10
Stucco on Concrete Block	Steel Frame	167.05	165.60	164.60	163.80	163.40	162.75	162.30	162.30	161.75
	Bearing Walls	160.65	159.20	158.15	157.35	157.00	156.30	155.95	155.85	155.30
Decorative Concrete Block	Steel Frame	166.05	164.60	163.60	162.80	162.40	161.70	161.35	161.25	160.75
	Bearing Walls	164.30	162.85	161.85	161.00	160.65	159.90	159.55	159.45	158.95
Perimeter Adj., Add or Deduct	Per 100 L.F.	4.25	3.60	3.10	2.70	2.30	2.10	1.90	1.80	1.60
Story Hgt. Adj., Add or Deduct	Per 1 Ft.	1.60	1.55	1.55	1.55	1.45	1.40	1.50	1.45	1.45

For Basement, add \$30.30 per square foot of basement area

The above costs were calculated using the basic specifications shown on the facing page. These costs should be adjusted where necessary for design alternatives and owner's requirements. Reported completed project costs, for this type of structure, range from \$80.70 to \$205.30 per S.F.

Common additives

Description	Unit	\$ Cost	Description	Unit	\$ Cost
Bleachers, Telescoping, manual			Kitchen Equipment, cont.		
To 15 tier	Seat	128 - 178	Dishwasher, 10-12 racks per hr.	Each	5075
16-20 tier	Seat	264 - 325	Food warmer, counter, 1.2 KW	Each	530
21-30 tier	Seat	280 - 340	Freezer, 44 C.F., reach-in	Each	3275
For power operation, add	Seat	51.50 - 81	Ice cube maker, 50 lb. per day	Each	1825
Carrels Hardwood	Each	680 - 1525	Range with 1 oven	Each	3275
Clock System			Lockers, Steel, single tier, 60" to 72"	Opening	198 - 325
20 room	Each	16,000	2 tier, 60" to 72" total	Opening	123 - 145
50 room	Each	39,100	5 tier, box lockers	Opening	69 - 82.50
Emergency Lighting, 25 watt, battery operated			Locker bench, lam. maple top only	L.F.	22.50
Lead battery	Each	299	Pedestals, steel pipe	Each	69
Nickel cadmium	Each	785	Seating		
Flagpoles, Complete			Auditorium chair, all veneer	Each	241
Aluminum, 20' high	Each	1550	Veneer back, padded seat	Each	291
40' high	Each	3550	Upholstered, spring seat	Each	280
Fiberglass, 23' high	Each	1775	Classroom, movable chair & desk	Set	74 - 155
39'-5" high	Each	3425	Lecture hall, pedestal type	Each	230 - 685
Kitchen Equipment			Sound System		
Broiler	Each	4050	Amplifier, 250 watts	Each	1875
Cooler, 6 ft. long, reach-in	Each	5275	Speaker, ceiling or wall	Each	198
			Trumpet	Each	380

Important: See the Reference Section for Location Factors.

Model costs calculated for a 1 story building with 15' story height and 45,000 square feet of floor area

School, Elementary

A. SUBSTRUCTURE

1010	Standard Foundations	Poured concrete; strip and spread footings	S.F. Ground	4.72	4.72	
1020	Special Foundations	N/A	—	—	—	
1030	Slab on Grade	4" reinforced concrete with vapor barrier and granular base	S.F. Slab	4.96	4.96	11.6%
2010	Basement Excavation	Site preparation for slab and trench for foundation wall and footing	S.F. Ground	.17	.17	
2020	Basement Walls	4' foundation wall	L.F. Wall	76	4.34	

B. SHELL

B10 Superstructure							
1010	Floor Construction	N/A	—	—	—		
1020	Roof Construction	Metal deck on open web steel joists	S.F. Roof	3.56	3.56		2.9 %
B20 Exterior Enclosure							
2010	Exterior Walls	Face brick with concrete block backup	70% of wall	S.F. Wall	30.40	10.71	
2020	Exterior Windows	Steel outward projecting	25% of wall	Each	711	4.67	13.2%
2030	Exterior Doors	Metal and glass	5% of wall	Each	3636	.65	
B30 Roofing							
3010	Roof Coverings	Single-ply membrane with flashing; polyisocyanurate insulation	S.F. Roof	7.84	7.84		
3020	Roof Openings	N/A	—	—	—		6.4%

C. INTERIORS

1010 Partitions	Concrete block	20 S.F. Floor/L.F. Partition	S.F. Partition	9.42	4.71	
1020 Interior Doors	Single leaf kalamein fire doors	700 S.F. Floor/Door	Each	1052	1.51	
1030 Fittings	Toilet partitions		S.F. Floor	1.50	1.50	
2010 Stair Construction	N/A		—	—	—	20.9%
3010 Wall Finishes	75% paint, 15% glazed coating, 10% ceramic tile		S.F. Surface	4.28	4.28	
3020 Floor Finishes	65% vinyl composition tile, 25% carpet, 10% terrazzo		S.F. Floor	6.89	6.89	
3030 Ceiling Finishes	Mineral fiber tile on concealed zee bars		S.F. Ceiling	6.57	6.57	

D. SERVICES

D10 Conveying							
1010	Elevators & Lifts	N/A	—	—	—	0.0 %	
1020	Escalators & Moving Walks	N/A	—	—	—		
D20 Plumbing							
2010	Plumbing Fixtures	Kitchen, bathroom and service fixtures, supply and drainage	1 Fixture/625 S.F. Floor	Each	7188	11.50	
2020	Domestic Water Distribution	Gas fired water heater		S.F. Floor	.57	.57	
2040	Rain Water Drainage	Roof drains		S.F. Roof	1.17	1.17	
D30 HVAC							
3010	Energy Supply	Oil fired hot water, wall fin radiation		S.F. Floor	9.78	9.78	
3020	Heat Generating Systems	N/A		—	—	18.9%	
3030	Cooling Generating Systems	N/A		—	—		
3050	Terminal & Package Units	Split systems with air cooled condensing units		S.F. Floor	13.25		13.25
3090	Other HVAC Sys. & Equipment	N/A		—	—		
D40 Fire Protection							
4010	Sprinklers	Sprinklers, light hazard		S.F. Floor	2.80	2.80	
4020	Standpipes	Standpipe		S.F. Floor	.35	.35	
D50 Electrical							
5010	Electrical Service/Distribution	800 ampere service, panel board and feeders		S.F. Floor	1.39	1.39	
5020	Lighting & Branch Wiring	High efficiency fluorescent fixtures, receptacles, switches, A.C. and misc. power		S.F. Floor	10.16	10.16	
5030	Communications & Security	Addressable alarm systems, internet wiring, communications systems and emergency lighting		S.F. Floor	3.58	3.58	
5090	Other Electrical Systems	Emergency generator, 15 kW		S.F. Floor	.09	.09	

E. EQUIPMENT & FURNISHINGS

1010 Commercial Equipment	N/A	—	—	—	
1020 Institutional Equipment	Chalkboards	S.F. Floor	.14	.14	0.1%
1030 Vehicular Equipment	N/A	—	—	—	
1090 Other Equipment	N/A	—	—	—	

F. SPECIAL CONSTRUCTION

1020 Integrated Construction	N/A	—	—	—	0.0%
1040 Special Facilities	N/A	—	—	—	

G. BUILDING SITEWORK

N/A				
Sub-Total			121.86	100%
CONTRACTOR FEES (General Requirements: 10%, Overhead: 5%, Profit: 10%)			25%	30.48
ARCHITECT FEES			7%	10.66

Total Building Cost 163